	te of Illinois		JAN 2 0 1984	
Dept. & Div. ILL EPA-MPCP Inspector Lay MADE I FOR DATE ON 22/83 (Signature) CONTROL PROGRAM				
Mine	e Name FIDELITY // M	ine Company <u>FREEMAN</u>	CINITED COPL Comp	
IEP. Peri	A AWAITING ISSUANCE M&M mit No. <u>OF NPDES PERMIT</u> Permit N		ounty PERRY	
Gene	eral Location 5 MILES WEST	OF Du Quoin	<u> </u>	
Arr	ival Time //:15 A Weather Conditions CL	OUDY WET LI	GAT WIND	
Min Ste Coa	LAMATION TYPE (Check Appropriate Type) e Includes Prime LandYes/No ep Slope Rule AppliesYes/No l PreparationYes/No Applicable	Reason for Visit: Ro Persons Contacted: Bicc Smith - 1		
<u>PAR</u>	AMETER CHECKLIST	GLEN HAMICTON-		
1.	Availability of: Apermits BPlans	GLEN FIAMILIAN		
2.	Imminent Danger to Public Health and Safet	·y	TEMPORARY REPORT	
3.	Significant Imminent Environmental Harm	[FINAL REPORT	
4.	Signs and Markers: A. mine entrance B. p E. perimeter observance 1. 100' zone 2. G. not investigated H. not applicable	erimeter C. blasting D 300' zone F. permit a	. topsoil rea correlation	
(5)	Disposal Spoil and Waste Material Outside Pit or Direct Cast Site: A. gob disposal: 1. site capacity 2. covering 3. vegetation B. within permit area C. site approved D. slope of site E. steep slope rules F. valley fill or head of hollow fills: 1. permit area 2. location near ridge top 3. fill design 4. fill construction 5. steep slope rules 6. under drains 7. lateral drains 8. controlled placement 9. engineer inspection on tinvestigated H. not applicable			
6.	Soil Handling: A. removal before other disturbance B. storage C. protection D. thickness E. root medium F. other overburden G. toxic material handling H. root medium satisfactory for top soil replacement (slope, thickness, texture) I. topsoil replaced J. grading current K. rills and gullies L. erosion control systems M. timely revegetation and mulching (1) not investigated 0. not applicable			
7.	Prime Land: A. prime land determination disturbance C. thickness removed D. apprestockpiles F. horizon replacement and thi H. grade (1) not investigated J. not apple	roved horizon storage E. Eckness G. protection of	protection of	
8.	General Water Quality and Hydrology: A waterial E. horizontal bore holes E sed 3. spillway 4. clean out 5. over 20' hig 6. seepage 7. structural weakness 8. dis 9(a). permitted yes/no C discharge I. zone markers NPDES permits required tigated M. not applicable	liment ponds: 1. size 2 th or over 20 acres foot charge structure 9. cher water quality 4 buffe	. structure storage (yes/no) mical treatment system	

cc: Dept. of Mines and Minerals



- 9. Stream Channel or Other Water Diversion: A temporary or permanent B. size adequacy C. stability D. gradient E. grade stability F. suspended solids G. sediment control H. channel design I. erosion control structures J. fish and wildlife protection K. vegetation L. removal of temporary structures M. structure removal procedures N. not investigated O. not applicable
- 10. Road Hydrology: A culverts B. ditches C. location choice D. grade E. stream closeness F. ditch relief drains G. out slope drains H. construction material toxic/_non-toxic I. maintenance J. railroad spur hydrology K. vegetation L. not investigated M. not applicable
- 11. Impoundment Structures: A. M.H.S.A. construction observance B. coal waste in structure (C) freeboard (D) stability (E) seepage F. engineer inspection G. dam marker H. maintenance I. ditch and spillways J. changes in geometry of structure K. not investigated L. not applicable
- 12. Steep Slope Procedure: A. spoil on outslope B. debris C. highwall removal D. disturbance above highwall E. excess spoil F. instability of spoil and woody material G. not investigated (A) not applicable
- 13. Preparation Plant: (A) yes: 1. permitted vyes/_ no (2) closed water system vyes/_ no (3). discharge potential __yes/_ no (B). no, raw coal shipped (C). not investigated

LFGEND: \bigcirc = parameter inspected: \bigcirc = comment or question on the parameter

NOTE: Items circled were considered during this investigation. If nothing under a major item was investigated, circle either "not investigated" or "not applicable". Violation means violation or apparent violation

NO VIOLATIONS FOUND

SEE ATTACHMENT

NO VIOLATIONE TOOME			
Indicated Parameter		Parameter	Comments Or Action Taken
	Check Column		
No.	Vio- lation	Non-Vio- lation	
GEN Comm.		~	
8A		~	
8G		V	
8J		V	
9 A		<i>L</i> -	
9 A 10 A	:	~	
		1	

ATTACHMENT

Freeman United Coal Mining Company Fidelity #11 November 11, 1983

GENERAL COMMENTS: During the investigation, I was accompanied by Glen Hamilton, Reclamation Supervisor for the subject site. Mr. Hamilton and I observed that the stainless steel pump has been installed to pump water out of the "moat", surrounding the gob pile, into the slurry circuit. Water from the moat flowed into the old slurry area which last spring overflowed the berms causing an unauthorized discharge and a large breach in the berm. The breach in the old slurry area has been repaired and with the new pumping system, another berm overflow appears remote.

- 8. A.: The drainageway which receives discharge waters from proposed discharge 005 has received additional rip-rap so as to stabilize the soil on the adjoining channel slopes.
- 8. G.: During the investigation, I obtained some effluent samples and prepared and shipped them to the Agency's Champaign Regional Office laboratory for analysis. The results of the analyses are listed below:

Sample #1: obtained from the "catwalk" of discharge 002. The pond was discharging at an undetermined rate (greater than 200 gpm) and the water sample appeared clear.

LAB. #B021125

T. Iron	0.8 mg/l	Suspended Solids	11 mg/l
Manganese	0.37 mg/l	pH	8.0
Sulfate	1825 mg/l	Alkalinity	218 mg/1
Conductance	3100 mg/l	T. Acidity	0 mg/l

Sample #2: obtained from the spillway area of proposed discharge 005. The pond was discharging at approximately 50 gpm. and the water sample appeared clear.

LAB. #B021126

T. Iron	0.4 mg/l	Suspended Solids	10 mg/1
Manganese	0.5 mg/l	pH	8.1
Sulfate	1010 mg/l	Alkalinity	195 mg/l
Conductance	2140 mg/1	T. Acidity	0 mg/l

8. J.: This site is operating under a proposed Construction Authorization. Due to an operations modification, the issuance of the site's NPDES permit may be delayed. Note: All Discharge Monitoring Reports have been submitted in accordance with the reporting schedule contained in the former NPDES Permit ILOO35840) which expired September 30, 1979.

Pg. 2- Attachment Freeman United Coal Mining Company Fidelity #11 November 22, 1983

- 9. A.: I observed the temporary water diversion along the southeast section of the site. The water diversion collects surface runoff and receives pit pumpage from the eastern portion of the site and directs it to the southernmost sedimentation pond (proposed Discharge 005).
- 10. A.: I discussed with Mr. Hamilton the need for keeping the road culverts clear of branches and other foreign materials so as to prevent any water from backing up.

Gary L. Minton

Environmental Protection Agency

GLM:mgg 01/13/84

cc: Dept. of Mines and Minerals
MPCP/Records Unit
MPCP/Field Operations Section

ID WASTE TREATMENT WORKS EFF ... ENT SAMPLING FORM **ENVIRONMENTAL PROTECTION AGENCY** FOR LABORATORY USE ONLY LE COLLECTED BY: 1. WINTON SAMPLE RECEIVED BY THE REC'D MUY. SAMPLING LOCATION DISCH DATE ANALYSES COMPLETED 1984 JAN FIDELITY DATE RESULTS FORWARDED . 002 BASIN/SUB-BASIN TOTAL TESTS REQUESTED UNAMPAIGN BEEK BIG Mud Doveoup MANTHER LAB SECTION PERVISOR CARD COL. CARD COL. CARD COL CARD NO. 2 CARD NO. 3 CARD NO. 1 1 FIPS COUNTY CODE BASIN CODE PLANT OR STATION NO. 8 - 10 (USE ONLY FOR PLANTS LAB ID NO. SAMPLE TYPE CODE SAMPLE TYPE CODE (SEE LIST BELOW) PLANKTON ARSENIC 19 - 22 (NO/ML) 19 - 23 **BARIUM 23 - 25 FLUORIDE 24 - 26 BORON 26 - 28 CHLORIDE 27 - 30** / HOUR (NEAREST) **CADMIUM 29 - 32** SULFATE 31 -34 TIME OF DAY (A.P.N.) CHROMIUM (HEX) 33 - 35 TOTAL SULFUR 35 WATER TEMPERATURE CHROMIUM (TRI) 36 - 38 OIL 39 - 42 28 - 30 (DEG. F.) **CHROMIUM 39 - 41** M.B.A.S. 43 - 46 31 - 33 ___ _ FIELD D.O 8.0 CARBON CHLOROFORM **COPPER 42 - 45** PH (UNITS) 34 - 36 EXTRACT 47 - 50 **CYANIDE 46 - 49** TOTAL TURBIDITY PHOSPHORUS 37 (UNITS) 51 - 54 IRON (T) 50 - 53 AVG. RESIDUE ON BOD. 41 - 44 IRON (DISSOLVED) 54 - 56 EVAP. 55 - 58 C.O.D. 45 - 48 VOLATILE SUSP. LEAD 57 - 60 SOLIDS 59 - 62 MANGANESE 61 - 63 COLOR (UNITS) 63 - 65 ONDUCTANO FEC COL MERCURY (#/100ML) (MICRO GM/L) 64 - 66 HARDNESS 66 - 68 **AMMONIA N 60 - 63** NICKEL 67 - 69 ALKALINITY 69 - 7 NITRATE + SELENIUM 70-72 TOTAL ACIDITY 72 NITRITE AS N 64 - 66 FREE ACIDITY 75 - 77 8.2 3+0 SILVER 73 - 76 **ORGANIC N 67 - 69** OTHER TESTS REQUIRED ZINC 77 - 79 TOTAL N 70 - 72 YES (REFERENCE REVERSE SIDE) ALL RESULTS EXPRESSED AS MG/L EXCEPT TDS/ E.C. 73 - 76 WHERE OTHERWISE STATED TOTAL SUSP SOLIDS 77 - 80 Gage Height (or top of ice) or R.P. to W.S.: AMPLE TYPE CODES: A = DOMESTIC WASTE ONLY Sampling Techniques: E = INDUSTRIAL WASTE ONLY ! = MIXED DOMESTIC & INDUSTRIAL WASTE UNK 200 GPM S = STREAM, LAKE, OR RECEIVING WATER T = MINE DRAINAGE OR WASTE Flow conditions (velocity etc.) THAN X = OTHER OR TYPE UNKNOWN SIGN BELOW FOR EFFLUENT SAMP Identification Nos on pH and Sp. Cond. meters: TRANSPORTED BY WARM Weather Conditions: RECEIVED BY AM TIME REC'D DATE REC'D РМ Comments and unusual conditions (indicate severity): WATER SAMPLE TRANSPORTED BY RECEIVED BY ΑМ DATE REC'D _ TIME REC'D PM WPC-129 REV. 3/78

ITUNE

SAMPLE *2

WATER QUALITY D WASTE TREATMENT WORKS EFF SENT SAMPLING FORM ENVIRONMENTAL PROTECTION AGENCY

<i></i>				
SAMPLE COLLECTED BY:	,	SAMPLE RECEIVED BY	LABORATORY USE ONLY	
GIARY L. MILIN	TON	DATE REC'D NOV. 2,1	985_TIME REC'D ON PM	
SAMPLING LOCATION:	PROPOSED POND	DATE ANALYSES COMPLE	ETED	
FIDELITY *//	005	DATE RESULTS FORWAR	DED JAN 3 1984	
BASIN/SUB-BASIN TRIBUTARY	Consta	TOTAL TESTS REQUESTE		
CARD COL.	CARD COL.	LAB SECTIONCHAM	CARD COL	
1 1 CARD NO. 1	1 2	CARD NO. 2	1 3 CARD NO. 3	
2-5 NCCA BASIN CODE	6-7 PLAN	IT OR STATION NO.	FIPS COUNTY CODE 8 - 10 (USE ONLY FOR PLANTS	
11-17 - BU2+ +26 ID NO.	11-17B()	2∐26 lab no.	11-17———B()21126	
SAMPLE TYPE CODE 18L (SEE LIST BELOW)	18 SAMPLE	TYPE CODE	18 SAMPLE TYPE CODE	
19-20 8 3 YEAR	ARSENIC 19 - 22		PLANKTON (NO/ML) 19 - 23	
21 - 22 / _ MONTH	BARIUM 23 - 25		FLUORIDE 24 - 26	
23 - 24 22 DAY	BORON 26 - 28	1976 1976 1976 1976	CHLORIDE 27 - 30	
25 · 26 Q 2 HOUR (NEAREST)	CADMIUM 29 - 32		SULFATE 31 - 34 / 0 / 0	
27 TIME OF DAY (A.P.N.)	CHROMIUM (HEX) 33 -	35	TOTAL SULFUR 35 - 38	
WATER TEMPERATURE 28 - 30 (DEG. F.)	CHROMIUM (TRI) 36 - 3	38	OIL 39 - 42	
31 - 33 FIELD D.O.	CHROMIUM 39 - 41		M.B.A.S. 43 - 46	
PH (UNITS) 34 - 36	COPPER 42 - 45		CARBON CHLOROFORM EXTRACT 47 · 50	
TOTAL PHOSPHORUS 37 - 40	CYANIDE 46 - 49		TURBIDITY	
AVG.	IRON (T) 50 - 53	O.A	(UNITS) 51 - 54	
BOD. 41 - 44	IRON (DISSOLVED) 54	- 56	EVAP. 55 - 58	
C.O.D. 45 - 48	LEAD 37 - 60		VOLATILE SUSP. SOLIDS 59 - 62	
CONDUCTANCE 21-40. FEC COL	MANGANESE 61 - 63)	COLOR (UNITS) 63 - 65	
93 - 59 (#/100ML)	MERCURY (MICRO GM/L) 64 - 66		HARDNESS 66 - 68	
AMMONIA N 60 - 63	NICKEL 67 - 69		ALKALINITY 69 - 71	
NITRATE + NITRITE AS N 64 - 66	SELENIUM 70-72	### · =	TOTAL ACIDITY 72 - 73	
ORGANIC N 67 - 69	SILVER 73 - 76		FREE ACIDITY 75 - 77 PH 3,2 0+0	
TOTAL N 70 - 72	ZINC 77 - 79	SSED AS MG/L EXCEPT	OTHER TESTS REQUIRED UP YES (REFERENCE REVERSE SIDE)	
E.C. 73 - 76	WHERE OTHERWISE		□NO	
TOTAL SUSP SOLIDS 77 - B	Gage Height (or top	of ice) or R.P. to W.S.:		
SAMPLE TYPE CODES: A = DOMESTIC WASTE ONLY	Sampling Techniques:	GRAB		
E = INDUSTRIAL WASTE ONLY I = MIXED DOMESTIC & INDUSTRIAL WASTE	Flore and the second	ocity etc.)	GPM	
S = STREAM, LAKE, OR RECEIVING WATER T = MINE DRAINAGE OR WASTE	Flow conditions (velo	ocity etc.)); P/-(
X = OTHER OR TYPE UNKNOWN SIGN BELOW FOR EFFLUENT SAMPLE	-			
Identification No		Conditions: WARM CLOVDY, WET		
RECEIVED BY	vveatner Conditions:	WHEIT! CI	ver, wel	
DATE REC'D TIME REC'D PM	Comments and unusu	al conditions (indicate severi	WI WATER SAMPLE CLEAR	
TRANSPORTED BY		(marcato 30401)		
RECEIVED BY				
DATE REC'D TIME REC'D PM	WPC-129 REV. 3/78			